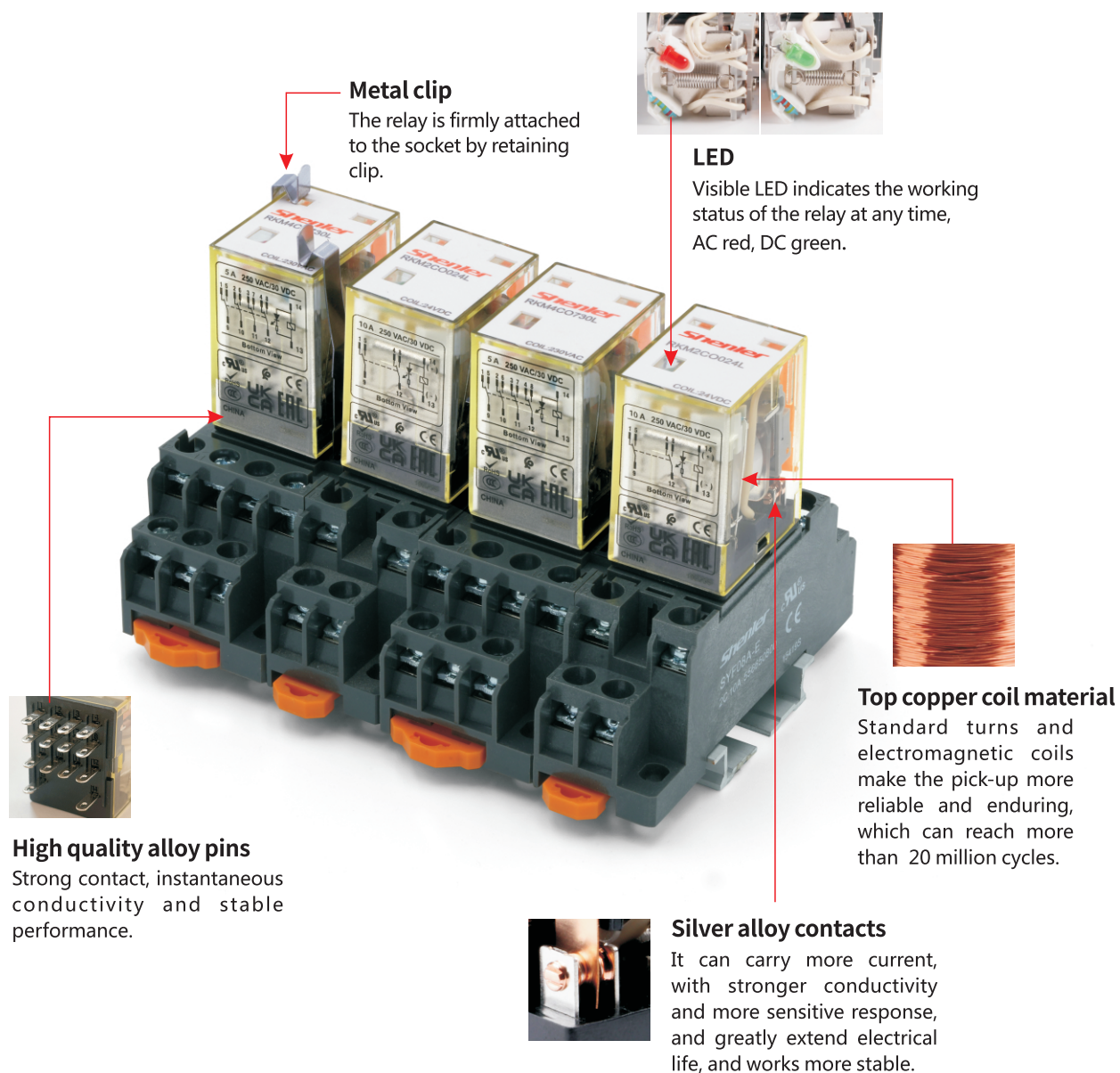


Selection manual of industrial control relay

RKM

Miniature General Purpose Relay

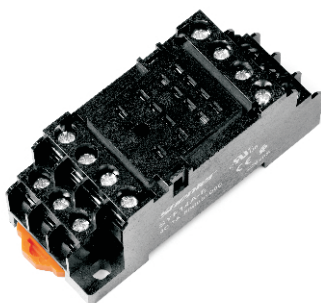
- 2 poles/3 poles 10A, 4 poles 5A
- With LED integrated in relay
- With inspection window
- Shenler industrial relays are widely used in the output signal and safety drive of PLC, CNC system, robot, intelligent manufacturing and other control systems. It is the ideal choice to realize remote control, production and processing, packaging, transportation, testing, storage and other equipment and automatic assembly lines.





Relay

+



Socket

=



Relay module

RKM □ □ □ □

Other options

L: LED

LD: LED + diode (13-,14+)

LD1: LED+diode(13+, 14-)

Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	524	536	548	615	730	880
Voltage (V AC)	6	24	36	48	115	230	380

Terminal arrangement

O: plug in

Contact form

2C: 2CO

3C: 3CO

4C: 4CO

Series name

Characteristics

Configuration		2C/3C	4C
Load	Resistance	10A/250VAC,30VDC	5A/250VAC, 30VDC
	Motor load	1/3HP, 240VAC	1/6HP, 240VAC
Max. switching capacity (resistive)		2500VA, 300W	1250VA, 150W
Contact	Min. switching capacity	170mW(17V/10mA)	
	Initial contact resistance	≤50mΩ	
	Material	Ag alloy	
	Electrical durability(Frequency 1 second on, 9 seconds off) at room temperature	≥10 x 10 ⁴ Cycles (1800 Ops/h)	
	Mechanical durability	≥1000 x 10 ⁴ Cycles (18000 Ops/h)	
Pick-up voltage (23°C) (Rated voltage)		DC:≤75%, AC:≤80% 50/60Hz	
Drop-out voltage (23°C) (Rated voltage)		DC:≥10%, AC:≥30% 50/60Hz	
Maximum voltage (23°C) (Rated voltage)		110%	
Insulation resistance		≥500MΩ (500VDC)	
Coil operating power	DC(W)	approx. 0.9	
	AC(VA)	approx. 1.2(60Hz)	
Operate time&Release time (at nominal voltage)		≤20ms	
Initial breakdown voltage	Between open contacts	1000VAC/1min (leakage current 1mA)	
	Between poles	2000VAC/1min (leakage current 1mA)	
	Between contacts and coil	2000VAC/1min (leakage current 1mA)	
Insulation characteristics	Rated voltage	250VAC	
	Pollution level	3	2
	IEC 60664 UL840 Overvoltage level	III	II
Impulse withstand voltage (waveform: 1.2/50us)		4000V(Altitude 2000m)	
Protection level		IP20	
Storage temperature/ humidity		-55~+85°C/ ≤85%RH (18 months)	
Working temperature/ humidity		-55~+70°C/ 5%~85%RH (No condensation) ★	
Air pressure		86~106KPa	
Shock resistance		10G (half-sine shock pulse: 11ms)	
Vibration resistance		10~55Hz double-amplitude:1.0mm	
Mounting		plug in	
Unit weight		approx. 35g	

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test the parameters before using.

Coil Specifications (23°C)

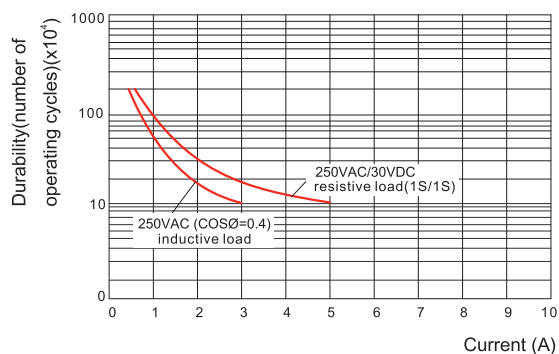
Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	11.5	180	370	640	4430	16500	42000

Coil resistance: under coil voltage 110V are measured with tolerance of $\pm 10\% \Omega$, above 110V with tolerance of $\pm 15\% \Omega$.

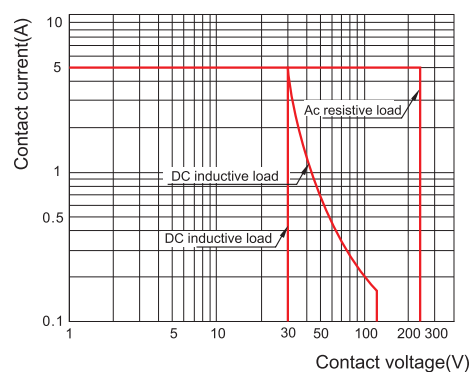
Contact Specification

RKM2CO

Electrical durability contacts

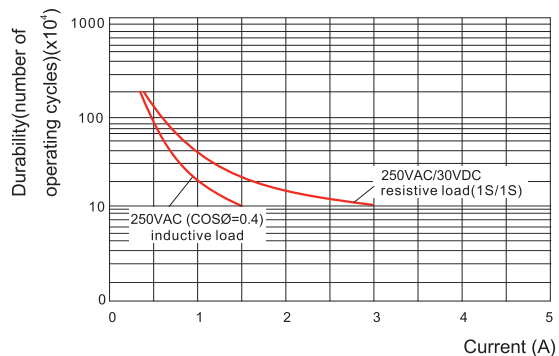


Maximum switching capacity

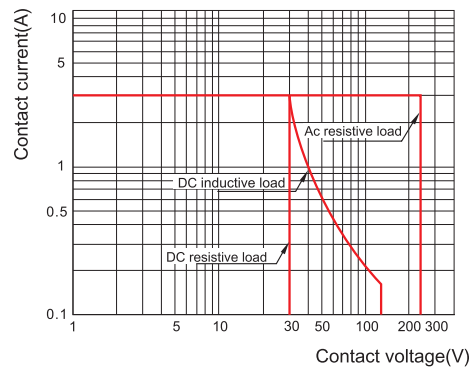


RKM4CO

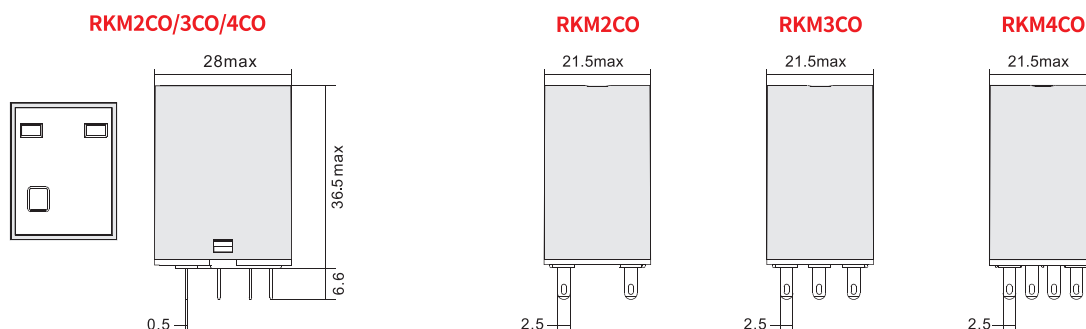
Electrical durability contacts



Maximum switching capacity

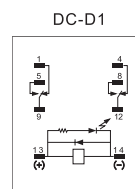
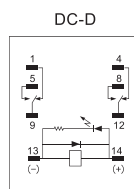
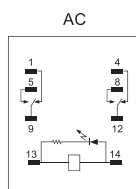
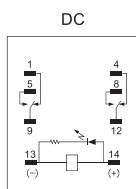
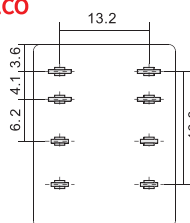


Dimensions (mm)

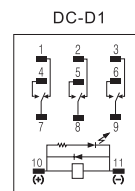
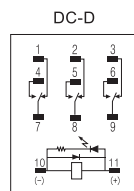
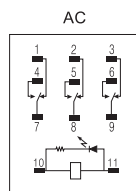
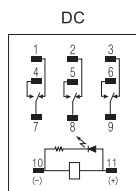
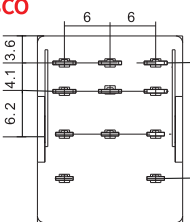


Wiring Diagrams

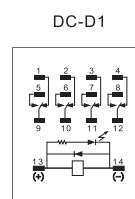
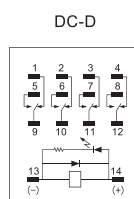
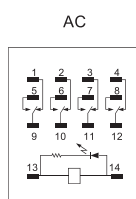
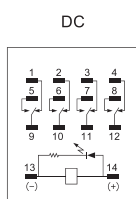
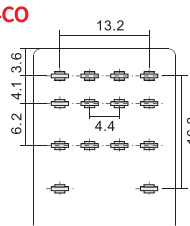
RKM2CO



RKM3CO



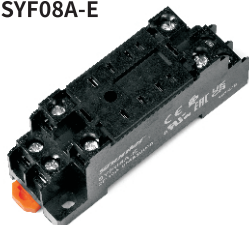
RKM4CO



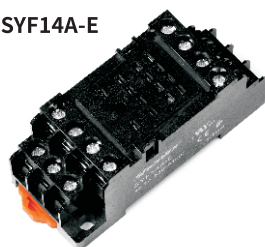
Characteristics



SYF08A-E



SYF14A-E

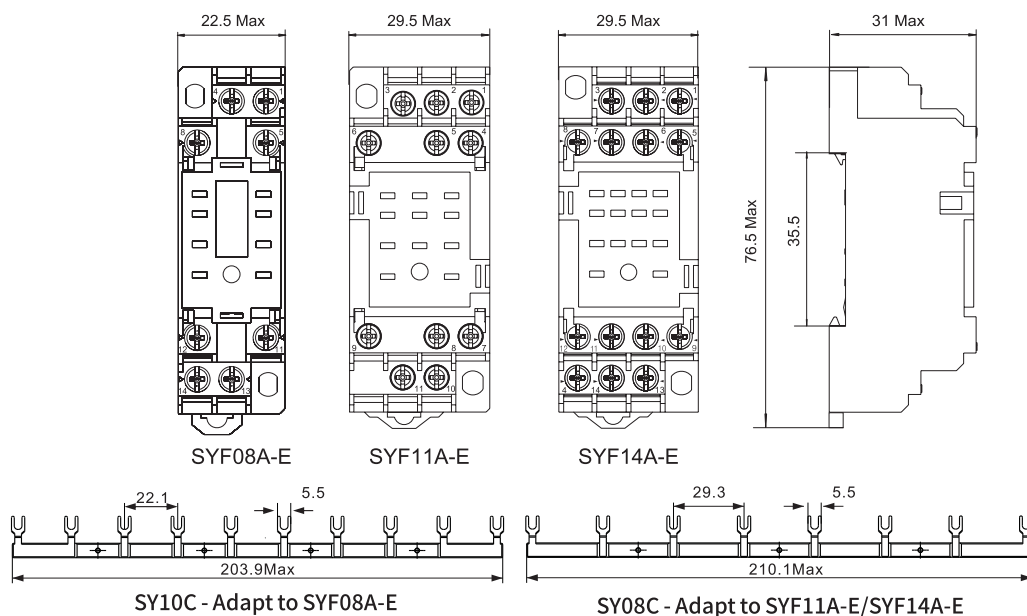


Type		SYF08A-E	SYF11A-E	SYF14A-E
Nominal load	Current	A	10	7
	Voltage	V	300	
Dielectric strength	Between coil and contact	V/min	3000	
	Between contacts	V/min	2000	
Max. tightening torque	Nm	1.0		
Wire size	AWG/mm ²	20-14/0.5-2.5		
Ambient temperature	°C	-40~+85		
Unit weight	g	37	56	57

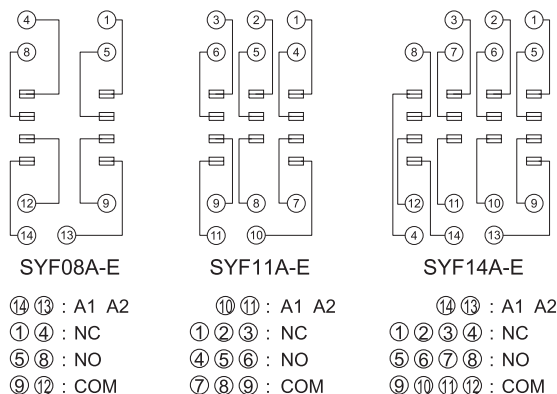
Accessories

Socket	Bus jumper	Metal clip
SYF08A-E	 SY08C	 SY36S
SYF11A-E		
SYF14A-E		

Dimensions (mm)

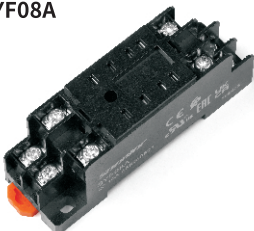


Connection Diagrams





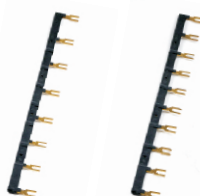
SYF08A



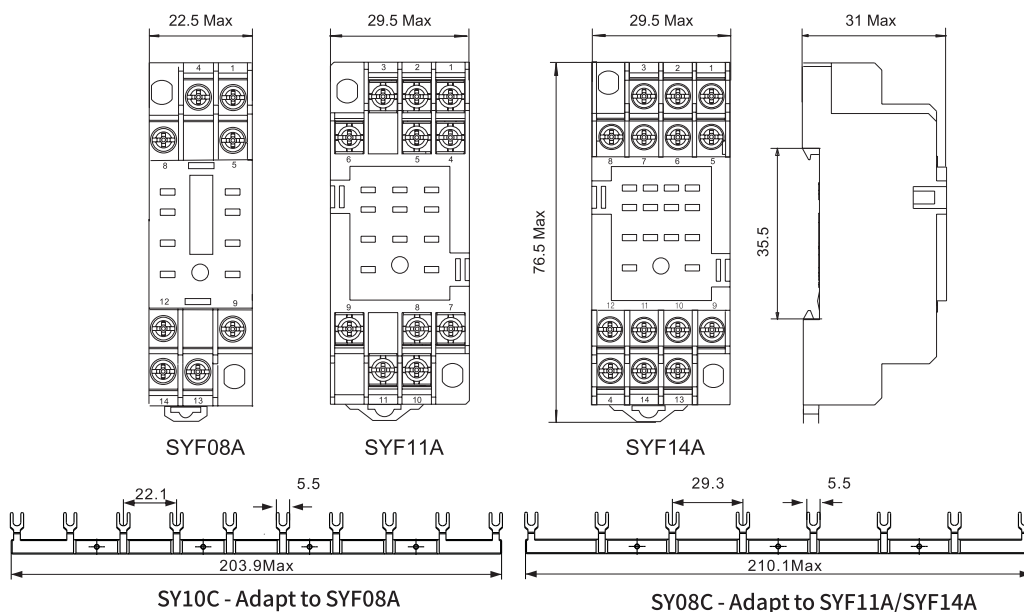
SYF14A



Characteristics

Type			SYF08A	SYF11A	SYF14A
Nominal load	Current	A	10	7	7
	Voltage	V	300		
Dielectric strength	Between coil and contact	V/min	3000		
	Between contacts	V/min	2000		
Max. tightening torque		Nm	1.0		
Wire size		AWG/mm ²	20-14/0.5-2.5		
Ambient temperature		°C	-40~+85		
Unit weight		g	34	47	56
Accessories					
Socket		Bus jumper		Metal clip	
SYF08A					
SYF11A					
SYF14A					
		SY08C	SY10C	SY36S	

Dimensions (mm)



Connection Diagrams

